

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/542,857  
Source: 1FW0  
Date Processed by STIC: 10/27/06

# ***ENTERED***



IFWO

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/542,857

DATE: 10/27/2006

TIME: 10:22:06

Input Set : A:\25031153.APP

Output Set: N:\CRF4\10272006\J542857.raw

3 <110> APPLICANT: PAVONE, VINCENZO  
 4 LUSSO, PAOLO  
 6 <120> TITLE OF INVENTION: RANTES-DERIVED PEPTIDES WITH ANTI-HIV ACTIVITY  
 8 <130> FILE REFERENCE: 2503-1163  
 10 <140> CURRENT APPLICATION NUMBER: 10/542,857  
 11 <141> CURRENT FILING DATE: 2005-07-21  
 13 <150> PRIOR APPLICATION NUMBER: PCT/IB2004/000155  
 14 <151> PRIOR FILING DATE: 2004-01-22  
 16 <150> PRIOR APPLICATION NUMBER: IT MI2003A000107  
 17 <151> PRIOR FILING DATE: 2003-01-24  
 19 <160> NUMBER OF SEQ ID NOS: 38  
 21 <170> SOFTWARE: PatentIn Ver. 3.3  
 23 <210> SEQ ID NO: 1  
 24 <211> LENGTH: 19  
 25 <212> TYPE: PRT  
 26 <213> ORGANISM: Artificial Sequence  
 28 <220> FEATURE:  
 29 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 30 peptide  
 32 <220> FEATURE:  
 33 <221> NAME/KEY: MOD\_RES  
 34 <222> LOCATION: (1)  
 35 <223> OTHER INFORMATION: Ac-Cys  
 37 <220> FEATURE:  
 38 <221> NAME/KEY: MOD\_RES  
 39 <222> LOCATION: (2)  
 40 <223> OTHER INFORMATION: Phe, Tyr, 1Nal, 2Nal, or Cha  
 42 <220> FEATURE:  
 43 <221> NAME/KEY: MOD\_RES  
 44 <222> LOCATION: (6)..(17)  
 45 <223> OTHER INFORMATION: This region may encompass 2-12 variable amino acid  
 46 residues  
 48 <220> FEATURE:  
 49 <221> NAME/KEY: MOD\_RES  
 50 <222> LOCATION: (18)  
 51 <223> OTHER INFORMATION: Phe, Tyr, 1Nal, 2Nal, or Cha  
 53 <220> FEATURE:  
 54 <223> OTHER INFORMATION: C-term amidated  
 56 <400> SEQUENCE: 1  
 W--> 57 Cys Xaa Pro Tyr Ile Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 58 1 5 10 15  
 W--> 60 Xaa Xaa Tyr  
 64 <210> SEQ ID NO: 2

*see p. 6*

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Input Set : A:\25031163.APP

Output Set: N:\CRF4\10272006\J542857.raw

65 <211> LENGTH: 13  
 66 <212> TYPE: PRT  
 67 <213> ORGANISM: Artificial Sequence  
 69 <220> FEATURE:  
 70 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 71 peptide  
 73 <220> FEATURE:  
 74 <221> NAME/KEY: MOD\_RES  
 75 <222> LOCATION: (7)  
 76 <223> OTHER INFORMATION: Ala or Pro  
 78 <400> SEQUENCE: 2

W--&gt; 79 Ala Arg Pro Leu Pro Arg Xaa His Ile Lys Glu Tyr Phe

80 1 5 10

83 &lt;210&gt; SEQ ID NO: 3

84 &lt;211&gt; LENGTH: 13

85 &lt;212&gt; TYPE: PRT

86 &lt;213&gt; ORGANISM: Artificial Sequence

88 &lt;220&gt; FEATURE:

89 &lt;223&gt; OTHER INFORMATION: Description of Artificial Sequence: Synthetic

90 peptide

92 &lt;220&gt; FEATURE:

93 &lt;221&gt; NAME/KEY: MOD\_RES

94 &lt;222&gt; LOCATION: (7)

95 &lt;223&gt; OTHER INFORMATION: Ala or Pro

97 &lt;220&gt; FEATURE:

98 &lt;221&gt; NAME/KEY: MOD\_RES

99 &lt;222&gt; LOCATION: (13)

100 &lt;223&gt; OTHER INFORMATION: 1Nal

102 &lt;400&gt; SEQUENCE: 3

W--&gt; 103 Ala Arg Pro Leu Pro Arg Xaa His Ile Lys Glu Tyr Xaa

104 1 5 10

107 &lt;210&gt; SEQ ID NO: 4

108 &lt;211&gt; LENGTH: 13

109 &lt;212&gt; TYPE: PRT

110 &lt;213&gt; ORGANISM: Artificial Sequence

112 &lt;220&gt; FEATURE:

113 &lt;223&gt; OTHER INFORMATION: Description of Artificial Sequence: Synthetic

114 peptide

116 &lt;220&gt; FEATURE:

117 &lt;221&gt; NAME/KEY: MOD\_RES

118 &lt;222&gt; LOCATION: (7)

119 &lt;223&gt; OTHER INFORMATION: Ala or Pro

121 &lt;220&gt; FEATURE:

122 &lt;221&gt; NAME/KEY: MOD\_RES

123 &lt;222&gt; LOCATION: (13)

124 &lt;223&gt; OTHER INFORMATION: 2Nal

126 &lt;400&gt; SEQUENCE: 4

W--&gt; 127 Ala Arg Pro Leu Pro Arg Xaa His Ile Lys Glu Tyr Xaa

128 1 5 10

## RAW SEQUENCE LISTING

DATE: 10/27/2006

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Input Set : A:\25031163.APP

Output Set: N:\CRF4\10272006\J542857.raw

131 <210> SEQ ID NO: 5  
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 136 <220> FEATURE:  
 137 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 138 peptide  
 140 <220> FEATURE:  
 141 <221> NAME/KEY: MOD\_RES  
 142 <222> LOCATION: (7)  
 143 <223> OTHER INFORMATION: Ala or Pro  
 145 <220> FEATURE:  
 146 <221> NAME/KEY: MOD\_RES  
 147 <222> LOCATION: (13)  
 148 <223> OTHER INFORMATION: Cha  
 150 <400> SEQUENCE: 5

W--&gt; 151 Ala Arg Pro Leu Pro Arg Xaa His Ile Lys Glu Tyr Xaa

152 1 5 10

155 &lt;210&gt; SEQ ID NO: 6

156 &lt;211&gt; LENGTH: 10

157 &lt;212&gt; TYPE: PRT

158 &lt;213&gt; ORGANISM: Artificial Sequence

160 &lt;220&gt; FEATURE:

161 &lt;223&gt; OTHER INFORMATION: Description of Artificial Sequence: Synthetic

162 peptide

164 &lt;220&gt; FEATURE:

165 &lt;221&gt; NAME/KEY: MOD\_RES

166 &lt;222&gt; LOCATION: (7)

167 &lt;223&gt; OTHER INFORMATION: Ala or Pro

169 &lt;400&gt; SEQUENCE: 6

W--&gt; 170 Ala Arg Pro Leu Pro Arg Xaa His Ile Phe

171 1 5 10

174 &lt;210&gt; SEQ ID NO: 7

175 &lt;211&gt; LENGTH: 10

176 &lt;212&gt; TYPE: PRT

177 &lt;213&gt; ORGANISM: Artificial Sequence

179 &lt;220&gt; FEATURE:

180 &lt;223&gt; OTHER INFORMATION: Description of Artificial Sequence: Synthetic

181 peptide

183 &lt;220&gt; FEATURE:

184 &lt;221&gt; NAME/KEY: MOD\_RES

185 &lt;222&gt; LOCATION: (7)

186 &lt;223&gt; OTHER INFORMATION: Ala or Pro

188 &lt;400&gt; SEQUENCE: 7

W--&gt; 189 Ala Arg Pro Leu Pro Arg Xaa His Tyr Phe

190 1 5 10

193 &lt;210&gt; SEQ ID NO: 8

194 &lt;211&gt; LENGTH: 10

195 &lt;212&gt; TYPE: PRT

## RAW SEQUENCE LISTING

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Input Set : A:\25031163.APP

Output Set: N:\CRF4\10272006\J542857.raw

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196 <213> ORGANISM: Artificial Sequence
198 <220> FEATURE:
199 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
200     peptide
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203 <221> NAME/KEY: MOD_RES
204 <222> LOCATION: (7)
205 <223> OTHER INFORMATION: Ala or Pro
207 <400> SEQUENCE: 8
W--> 208 Ala Arg Pro Leu Pro Arg Xaa Glu Tyr Phe
      209   1             5             10
212 <210> SEQ ID NO: 9
213 <211> LENGTH: 10
214 <212> TYPE: PRT
215 <213> ORGANISM: Artificial Sequence
217 <220> FEATURE:
218 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
219     peptide
221 <400> SEQUENCE: 9
222 Ala Arg Pro Leu Pro Arg Lys Glu Tyr Phe
223   1             5             10
226 <210> SEQ ID NO: 10
227 <211> LENGTH: 10
228 <212> TYPE: PRT
229 <213> ORGANISM: Artificial Sequence
231 <220> FEATURE:
232 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
233     peptide
235 <400> SEQUENCE: 10
236 Ala Arg Pro Leu Pro Ile Lys Glu Tyr Phe
237   1             5             10
240 <210> SEQ ID NO: 11
241 <211> LENGTH: 10
242 <212> TYPE: PRT
243 <213> ORGANISM: Artificial Sequence
245 <220> FEATURE:
246 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
247     peptide
249 <220> FEATURE:
250 <221> NAME/KEY: MOD_RES
251 <222> LOCATION: (4)
252 <223> OTHER INFORMATION: Ala or Pro
254 <400> SEQUENCE: 11
W--> 255 Ala Arg Pro Xaa His Ile Lys Glu Tyr Phe
      256   1             5             10
259 <210> SEQ ID NO: 12
260 <211> LENGTH: 19
261 <212> TYPE: PRT
262 <213> ORGANISM: Artificial Sequence

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Input Set : A:\25031163.APP

Output Set: N:\CRF4\10272006\J542857.raw

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264 <220> FEATURE:
265 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
266     peptide
268 <220> FEATURE:
269 <221> NAME/KEY: MOD_RES
270 <222> LOCATION: (1)
271 <223> OTHER INFORMATION: Ac-Cys
273 <220> FEATURE:
274 <223> OTHER INFORMATION: C-term amidated
276 <400> SEQUENCE: 12
277 Cys Phe Pro Tyr Ile Ala Arg Pro Leu Pro Arg Ala His Ile Lys Glu
278   1             5             10             15
280 Tyr Phe Tyr
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285 <211> LENGTH: 19
286 <212> TYPE: PRT
287 <213> ORGANISM: Artificial Sequence
289 <220> FEATURE:
290 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
291     peptide
293 <220> FEATURE:
294 <221> NAME/KEY: MOD_RES
295 <222> LOCATION: (1)
296 <223> OTHER INFORMATION: Ac-Cys
298 <220> FEATURE:
299 <223> OTHER INFORMATION: C-term amidated
301 <400> SEQUENCE: 13
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303   1             5             10             15
305 Tyr Phe Tyr
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310 <211> LENGTH: 19
311 <212> TYPE: PRT
312 <213> ORGANISM: Artificial Sequence
314 <220> FEATURE:
315 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
316     peptide
318 <220> FEATURE:
319 <221> NAME/KEY: MOD_RES
320 <222> LOCATION: (1)
321 <223> OTHER INFORMATION: Ac-Cys
323 <220> FEATURE:
324 <221> NAME/KEY: MOD_RES
325 <222> LOCATION: (2)
326 <223> OTHER INFORMATION: 1Nal
328 <220> FEATURE:
329 <223> OTHER INFORMATION: C-term amidated
331 <400> SEQUENCE: 14
W--> 332 Cys Xaa Pro Tyr Ile Ala Arg Pro Leu Pro Arg Ala His Ile Lys Glu

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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/542,857

DATE: 10/27/2006  
TIME: 10:22:07

Input Set : A:\25031163.APP  
Output Set: N:\CRF4\10272006\J542857.raw

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 2,6,7,8,9,10,11,12,13,14,15,16,17,18  
Seq#:2; Xaa Pos. 7  
Seq#:3; Xaa Pos. 7,13  
Seq#:4; Xaa Pos. 7,13  
Seq#:5; Xaa Pos. 7,13  
Seq#:6; Xaa Pos. 7  
Seq#:7; Xaa Pos. 7  
Seq#:8; Xaa Pos. 7  
Seq#:11; Xaa Pos. 4  
Seq#:14; Xaa Pos. 2  
Seq#:15; Xaa Pos. 2  
Seq#:16; Xaa Pos. 2  
Seq#:17; Xaa Pos. 18  
Seq#:18; Xaa Pos. 18  
Seq#:19; Xaa Pos. 18  
Seq#:29; Xaa Pos. 2

## VERIFICATION SUMMARY

DATE: 10/27/2006

PATENT APPLICATION: US/10/542,857

TIME: 10:22:07

Input Set : A:\25031163.APP

Output Set: N:\CRF4\10272006\J542857.raw

L:57 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
L:60 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:16  
L:79 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0  
L:103 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0  
L:127 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0  
L:151 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0  
L:170 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0  
L:189 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0  
L:208 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0  
L:255 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0  
L:332 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0  
L:362 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0  
L:392 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0  
L:425 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:16  
L:455 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:16  
L:485 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:16  
L:703 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0